UR007

Vehicle Video Recorder

Full HD / 5 Megapixel

VūPRO™

TABLE OF CONTENTS

A. FEATURES

• Built-in Full HD 5M CMOS Sensor. Viewing angle of approximately 105°.

• Suitable for all types of vehicles. Compact design. Easy installation.

• Equipped with a 3 inch LCD screen. Viewing angle is easily adjustable. Manual photo capture is also possible.

• During playback of video footage and photos, the built-in screen direction sensor will detect if it is for horizontal or vertical viewing.

• The device simultaneously records a video of the outside driving conditions and the audio inside the vehicle.

• A memory SD card of a maximum of 32 GB Class 10 or above is recommended.

• The G-sensor sensitivity can be adjusted according to vehicles and road conditions. When detecting strong impact, the device will start emergency recording and protect these files from being deleted/overwritten.

• When the vehicle is parked and the ignition is powered off, the device can detect motion/impact onto the vehicle and will start recording. N.B.: An external power source is needed for this function to work.

• The GPS and Image data are recorded and playable on the VuPro Player.

• The Lane Departure Warning System (LDWS) feature alerts the driver by sounding off a beep when the vehicle drives outside of the lanes.

• This device also has a Speeding Warning Function.

B. INSTALLATION GUIDE

There are two types of brackets that can be used for the installation: sticker-holder or suction-cup (optional).

Stick-holder method

Remove 3M sticker and place it onto the windshield in the best location.

Place the bracket; latch into the device and fix the cable.

Plug in the cigarette lighter adaptor into the outlet.

Suction-cup method
(*Optional)

Face the bracket upward.

Insert the suction cups. *Optional

Insert the cable into the USB port.

Place the device on the windshield using the suction cups and fix the cable.

Screen display

Blue light flashing: GPS positioning

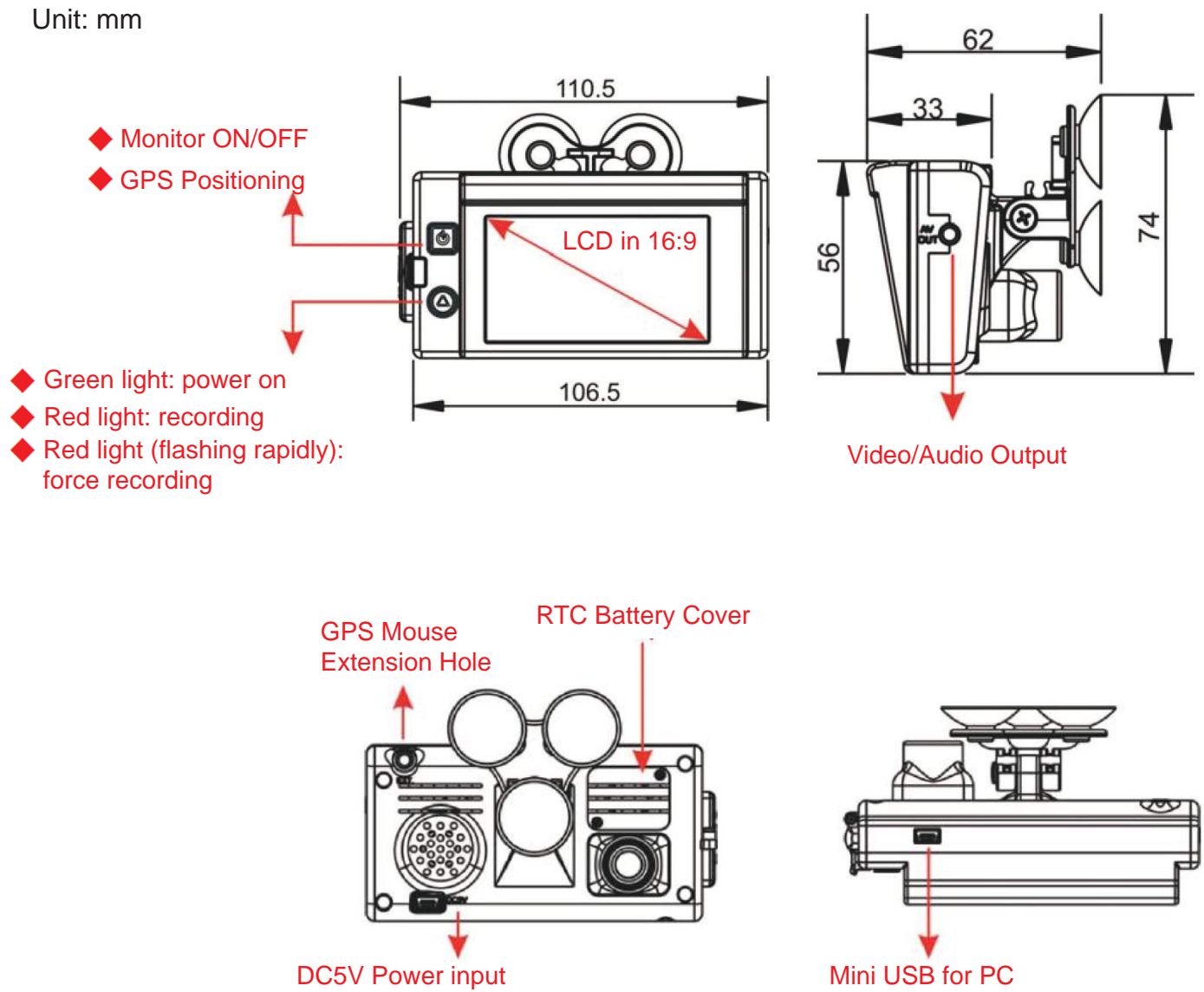Blue light on: GPS positioning ready

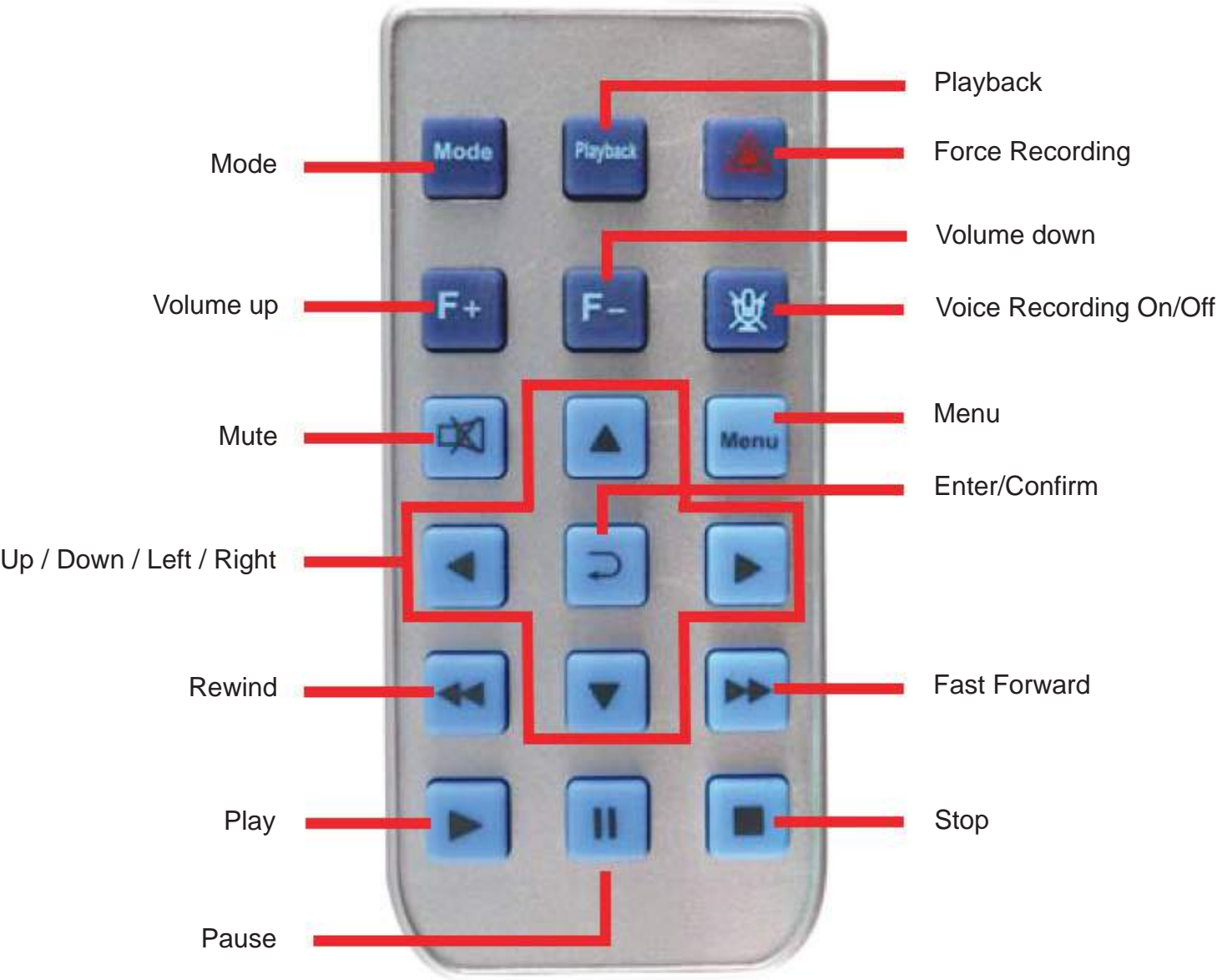Green light: Power on

Red light: Recording

C. SPECIFICATIONS

Items	Description
Chipset	Ambarella H.264 image compression chip
Sensor Device	Full HD 5M CMOS Sensor
Viewing Angle	View angle approx. 105 degrees
Display	3 inch LCD screen 16:9 format
Voltage	Start at 5V±5% : 650mA Remark: Please use 5V±5% 1A cigarette lighter adapter. The machine needs 4.8V to start.
Operating Temperature	-30°C to +70°C (Inside the vehicle)
Storage Device	8GB SD memory card or higher is recommended. A read/write speed of 15MB/s and a maximum capacity of 32GB are recommended.
Recording Frame and Content	1920x1080 (Full HD 1080P / 30F) 1280x720 (HD720P / 60F and HD720P / 30F) Auto recording when the system is powered up. Recording frame: 30fps/60fps (NTSC/PAL) only select one.
Camera Mode	Resolution 3M, 5M, 8M (manual / G-Sensor / Timer)
Recording Content	Date, time, image, sound, G-Sensor data, GPS data
Recording Format	Specific format for VuPro Player software (recording mode)
Microphone	Built-in dual high sensitivity microphone.
Input Device	Force recording button, monitor ON/OFF button, remote control
Output Device	a) TV-out (1 Vp-p composite video output, 75 ohms). Two kind of systems: NTSC/PAL. b) Green light: Power c) Red light: Recording d) Blue light: GPS 3D positioning e) Mini USB for PC connection
Time Setup	Auto-calibrating by GPS signals. If GPS is not available, the built-in clock will be used.
G-Sensor	Built-in internal 3D G-Sensor
Important Notice	a) GPS positioning speed will be affected by weather, window films, etc. The window protection film may contain metal substances which affect the GPS positioning. b) The light indicator distinguishes between day and night mode. When the power is on, it will enter night mode first. c) The machine must be installed in an area where wipers can reach. d) SD card must be formatted by the machine or the VuPro Player software before being used. e) After the SD card has been formatted, the user needs to set up the time zone data from the OSD or it will auto-calibrate on its own with the GPS signal. The video can now be recorded with the right time data. f) When connected to the computer power supply, please use another power line because the power consumption is above standard USB (signal output 500mA). g) For the power cable installation, don't bypass above the machine (GPS patch). Set the cable to the bracket latch and then wire it to the car ceiling. The GPS signal will be received better. h) The RTC battery cover allows for easy replacement of the battery (CR1220). i) In the camera mode, the screen will be displayed in 4:3 mode and the resolution will be 2592x1944/5M.

D. PHYSICAL DESCRIPTION OF THE PRODUCT AND REMOTE CONTROL

Unit: mm

◆ Monitor ON/OFF

◆ GPS Positioning

LCD in 16:9

110.5

106.5

62

33

56

74

◆ Green light: power on
◆ Red light: recording
◆ Red light (flashing rapidly):
   force recording

Video/Audio Output

GPS Mouse
Extension Hole

RTC Battery Cover

DC5V Power input

Mini USB for PC

REMOTE CONTROL FUNCTIONS

Mode

Playback

Force Recording

Volume up

Volume down

Voice Recording On/Off

Mute

Menu

Enter/Confirm

Up / Down / Left / Right

Rewind

Fast Forward

Play

Stop

Pause

E. MAIN MENU DESCRIPTION

1. OSD (On Screen Display) Menu

■ Setup Menu

1/3

2/3
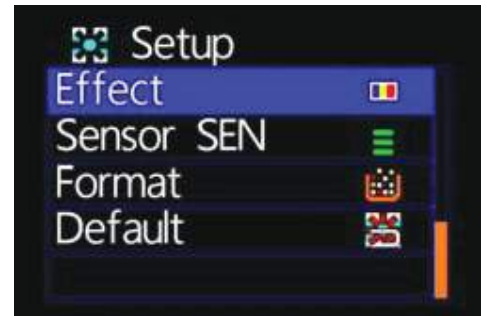
3/3

■ Camcorder Menu
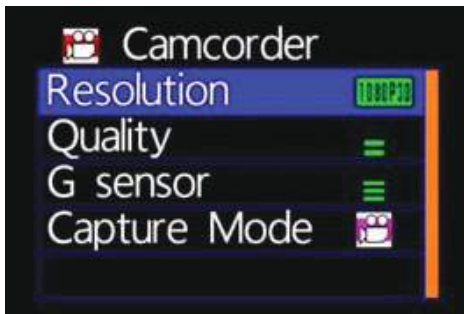
■ Camera Menu

■ LDWS Menu
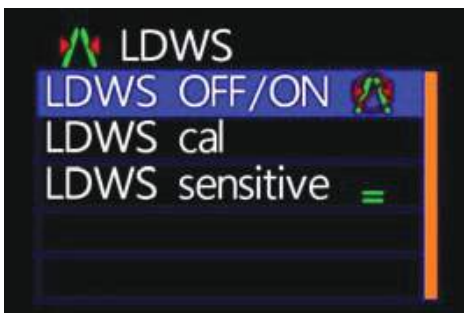
■ Motion Menu
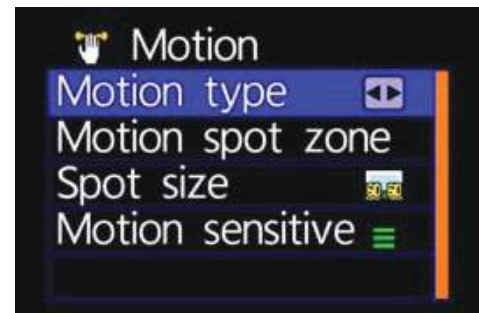
■ Please use the remote control to execute the following actions:

ACTION	KEY ON REMOTE CONTROL
Move through the lists	◀ ▶ [LEFT OR RIGHT]
Move the blue bar	▲ ▼ [UP OR DOWN]
Confirm	⏎ [ENTER]
Go to Previous Menu or Main Menu	Menu [MENU]

2. Setup Menu

■ Language Setting

* Select English / French / German / Italian / Japanese / Korean / Portuguese / Russian /
  Traditional Chinese / Spanish / Simplified Chinese / Turkish / Dutch/ etc.

■ Date/Time Setting
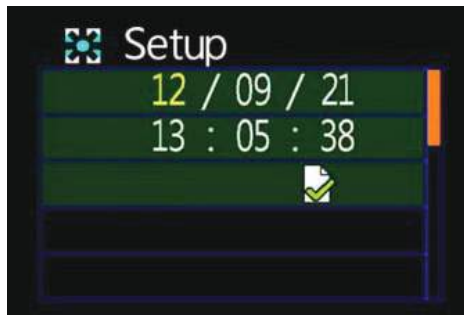
ACTION	KEY ON REMOTE CONTROL
Move through the list of settings	▲ ▼ [UP/DOWN]
Change the settings	◄ ► [RIGHT/LEFT] +
	⏎ ▲ ▼ [CONFIRMATION] + [UP/DOWN]
Confirm	⏎ [CONFIRM]
Go to Previous Menu	Menu [MENU]
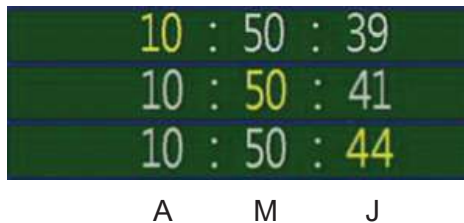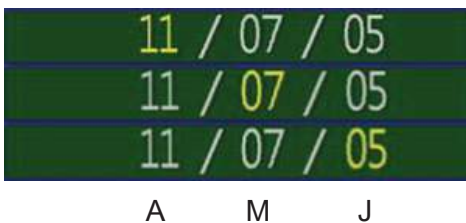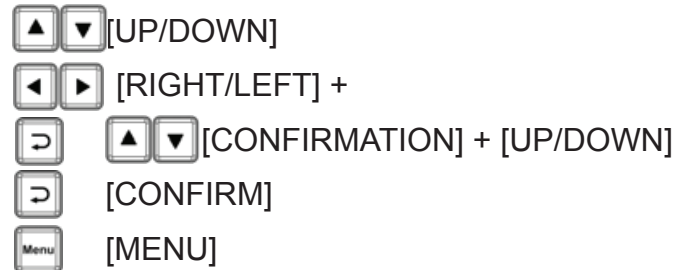
* Year: Last digits of year (11 means 2011).
  Hour: 24 hour cycle

■   Time Zone Setting

* Select the time zone for the specific area

■   Unit Of Speed Setting

* km/h (kilometers) or mph (miles)

■   Show Speed Setting

* Delete / Select

■   Speeding Alarm Setting

* Select Cancel, 40 km/h, 45 km/h…195 km/h, 200 km/h etc.

■   TV Standard Setting
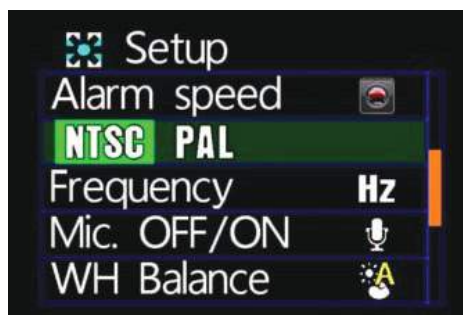
* Select NTSC / PAL

■   Light Frequency Setting

* Select 50Hz / 60Hz

* Light frequency enables specific light wavelengths to be detected by the lens.
  The higher the light frequency, the brighter it is around the lens.

■   Microphone Off / On Setting

* Select Off / On

■   White Balance Setting

* Select Automatic / Sunny Day / Cloudy Day / Fluorescent / Incandescent

 Automatic

Sunny Day

Cloudy Day

Fluorescent (Yellow Background)

Incandescent (Bright White Background)

* "Automatic" is the recommended setting when recording while on the road in order to prevent getting a
   blurred image. "Automatic" is the default setting.

The following pictures show the same capture modified by the different White Balance settings.

Icon	White Setting	Balance Picture	
	Automatique		Default setting
	Journée ensoleillée		Sunny
	Journée nuageuse		Cloudy/Dark/Sunset
	Fluorescent		Fluorescent (Yellow Light Background)
	Incandescent		Incandescent (White Light Background)

■ Effect Setting
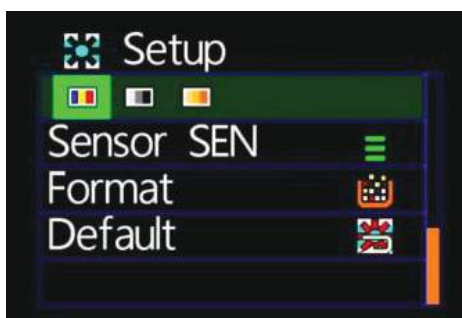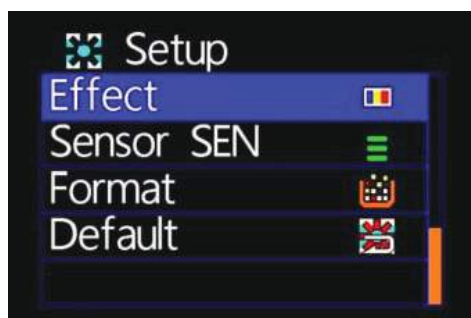
* Select Color / B&W / Classic

* Once the "Effect" is set, it will automatically be used for the snapshots or when operating the camera.

The following pictures show the same capture modified by the different Effect settings.

Icon	Effect Setting	Picture
	Color	
	B&W	
	Classic	

■ Sensor Sensitivity Setting
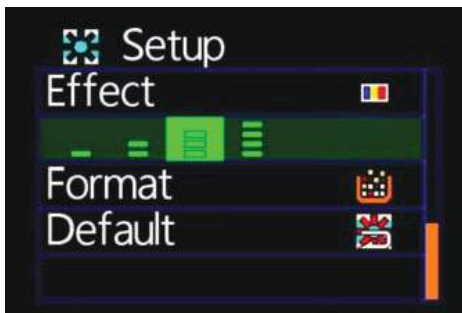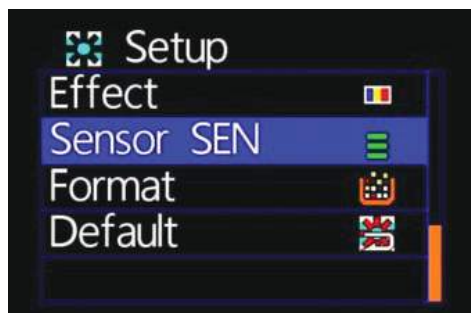
* The more stripes you select, the more sensitive the sensor.

* When a vehicle drives through darker areas, the "sensitivity sensor" will decide whether "white balance" setting will be activated or not. If the "sensitivity sensor" is set to more sensitive, as the vehicle drives into darker areas the "white balance" will automatically be activated. In this situation, the video image may be too bright.

■   Format Setting
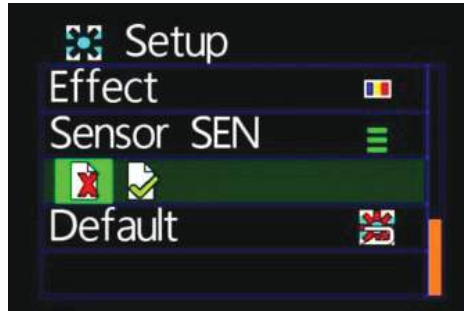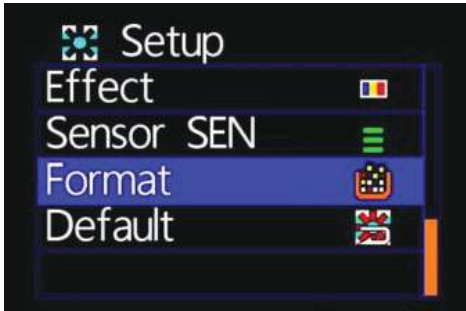
 * Select Cancel / Confirm Formatting.

* When "Cancel Formatting" is selected; you will be redirected to the "Main Menu".

* During formatting, existing data will be erased. Please backup all important data prior to formatting the memory card.

* All brand new SD memory cards must be formatted before using.

■   Default Setting
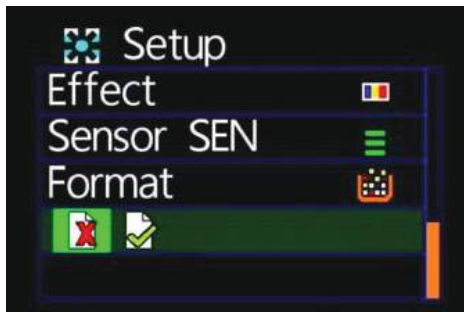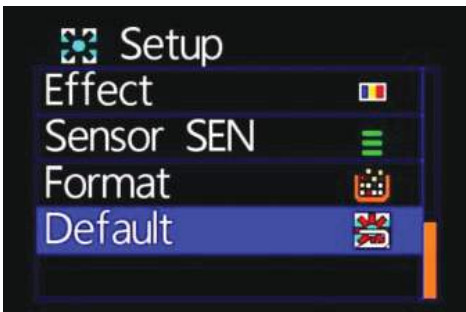
 * Select Cancel Factory Default Setting / Confirm Factory Default Setting

* When "Default" is selected you will be redirected to the "Main Menu" and the factory default setting will be automatically chosen.
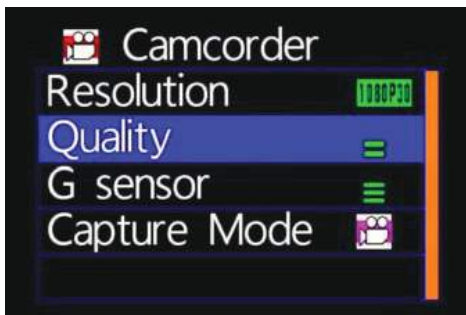
* To change the settings go back to the main menu.
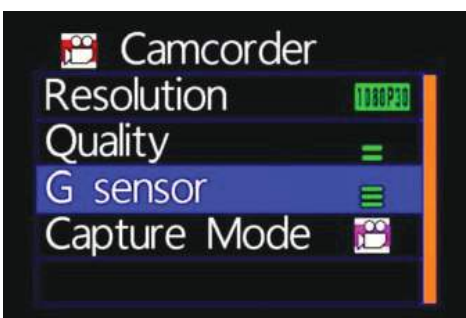
3.   Camcorder Menu

■   Resolution Setting
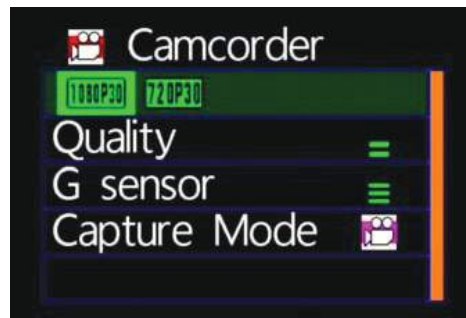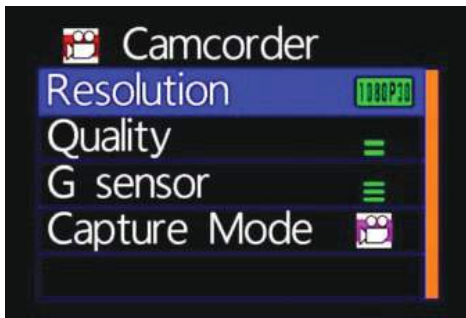
 * Select one of 2 resolutions: 1080P (30fps) / 720P (30fps)

■   Quality Setting
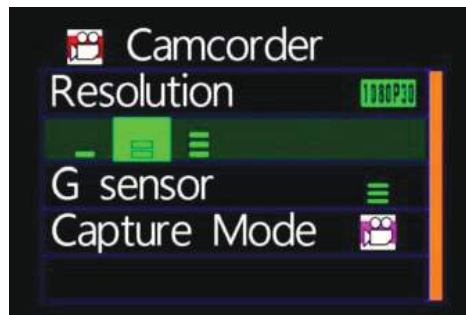
 * Notice: the more stripes you select, the more effective the video resolution.
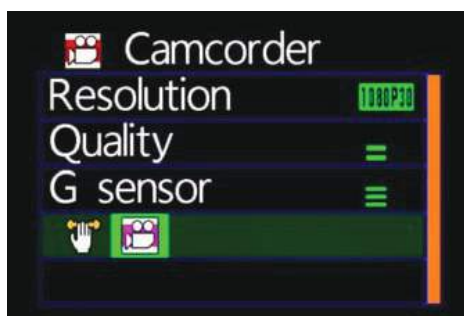

■   G-Sensor Setting

 * NOTICE: the more stripes you select, the more sensitive to impacts your G-sensor
   will be and the more easily Force Recording will be activated

* Each time Force Recording is triggered, 3 minutes of footage before and after the accident will be
  automatically recorded, saved and protected.

■   Capture Mode Setting

* ▣ : Motion mode

▣ : Normal mode

* When Motion mode is selected: once the device is rebooted it will be switch back to normal recording mode.

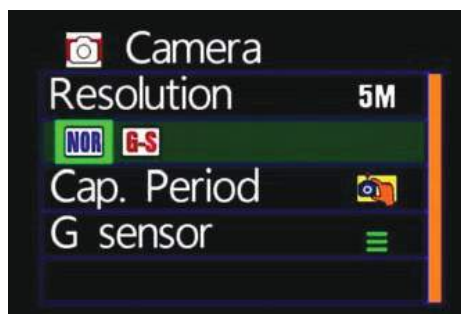* To activate the Motion and LDWS functions, you must reselect the Motion mode.
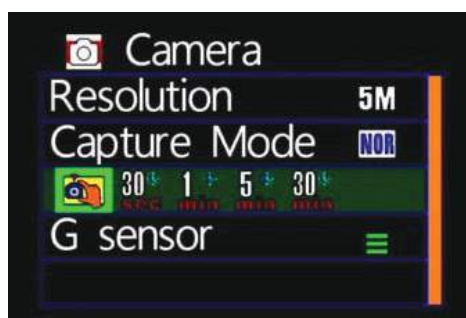
4.   Camera Menu

■   Resolution Setting
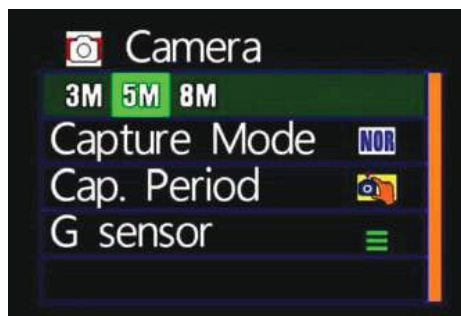
* Select one of 3 Resolution modes: 3M/ 5M/ 8M.

■   Capture Mode Setting

* Select NOR (Normal) or G-S (G Sensor mode, three continuous snapshots).

■   Capture Frequency Setting

* Select Normal / 30 sec / 1 minute / 5 minutes / 30 minutes

■   G-sensor Setting

* Notice: The higher the sensitivity of the G-sensor, the easier it will be to trigger a
  Force Recording. Once Force Recording is activated, 3 consecutive pictures will
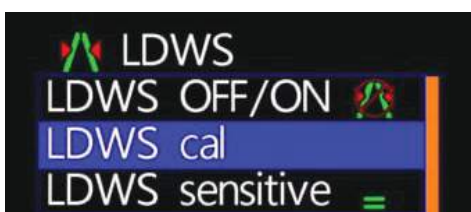 automatically be taken and saved.

5.   LDWS Menu

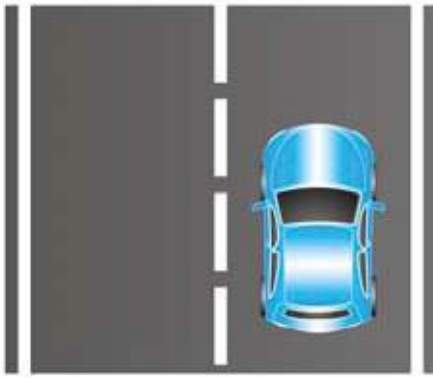■   LDWS setting
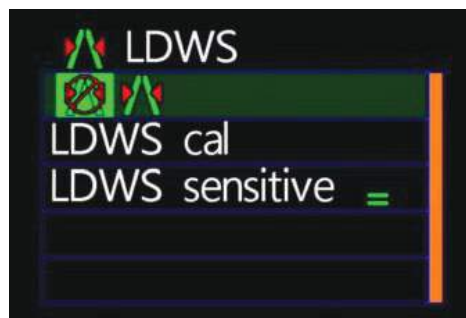
* Select LDWS on / LDWS off
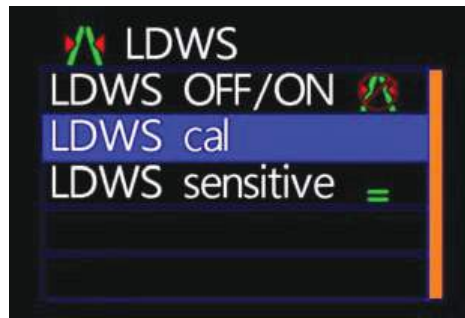
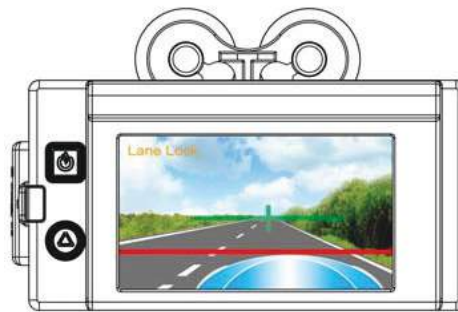■   LDWS Calibration

■ Setting LDWS：

1. Drive the vehicle in the middle of the road.

2. Open "LDWS" and select "LDWS cal".

3. Use these keys ▲▼ ◄► on the remote control to place the "CROSS" in the exact middle of the road. If setting fails, a "Can't get Lane" message will be appeared. Use ⊃ to change horizontal line.

4. Use these keys ▲▼◄► on the remote control to adjust the horizontal line above the vehicle's hood. When the line can be recognized by the DVCR, a "Lane Lock" message will appear.
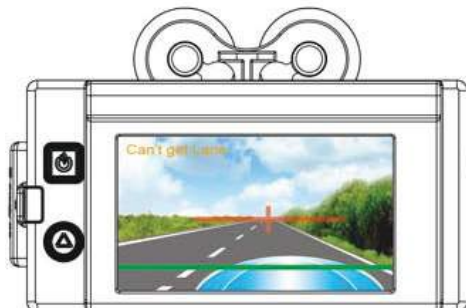
5. Please wait for a few seconds in order for the device to be calibrated after the key ▲ "Force Recording" is pressed.
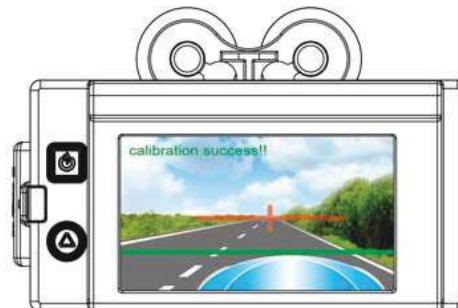
6. After calibration is completed, the message "calibration success!!" will appear in GREEN on the screen. Press the ▢ "menu" key on the remote control.
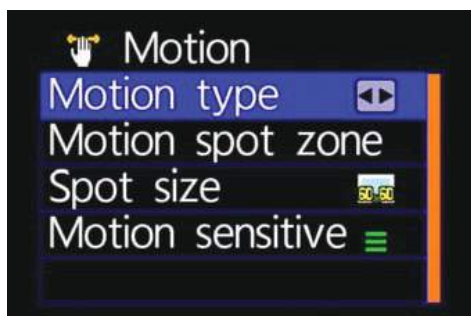
■   LDWS Sensitive Setting

* The more stripes are selected the more sensitive the LDWS is.
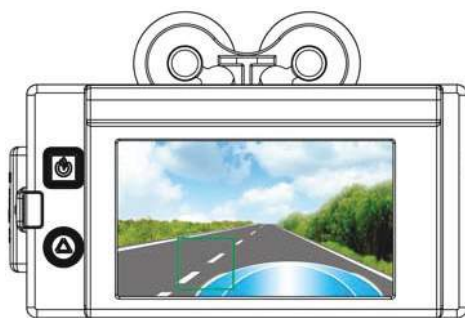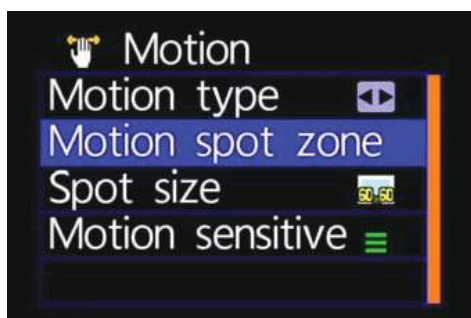
6.   **Motion Menu**

■   Motion Type Setting

* 🟢 : Constant Motion Recording.

* ◀▶ : Full Screen Motion Recording. (For this setting, it is not necessary to setup the motion detection areas).
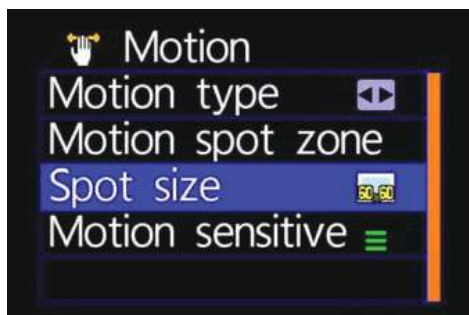
■   Motion Spot Zone Setting

* Use the remote control to detect the location where there is motion.
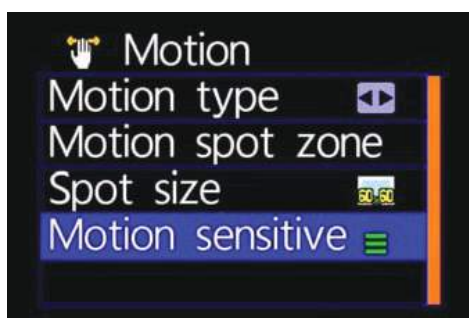
* When constant motion recording mode is selected, you must determine and set the area for motion detection.

■   Spot Size Setting

* Select 60x60 / 60x120 / 120x60 / 120x120 / 180x180.

■   Motion Sensitivity Setting



* The more stripes are selected the more sensitive it is.

F.   PLAYBACK

1.   Direct playback on the device
The built-in accelerometer senses screen orientation, inclination, tilt and automatically detects if it needs to be rotated back to its normal position.
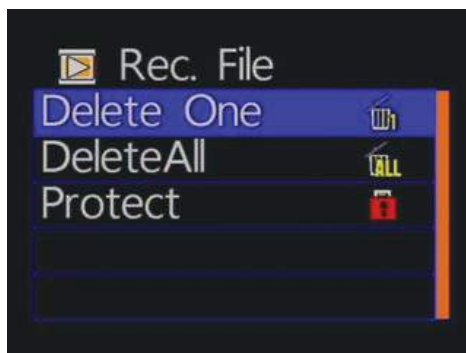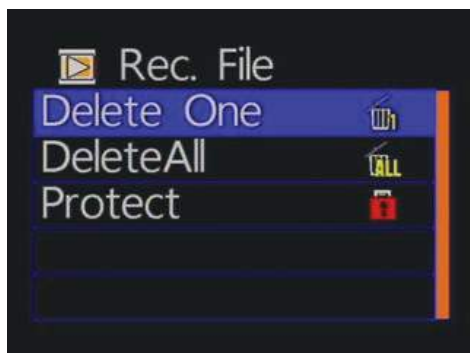
2.   Video modes
Press "Playback" on the remote control in the Video Modes. Select the timing of the appropriate video and press "Play".
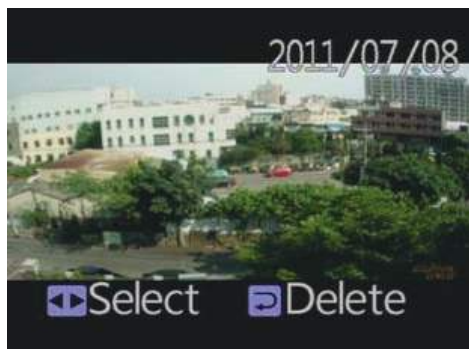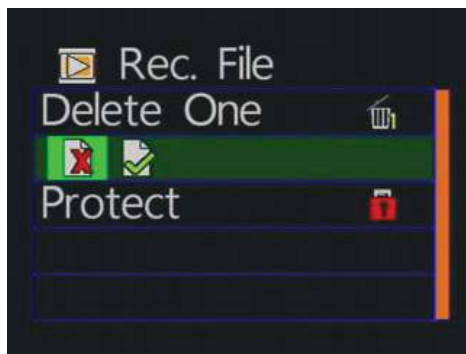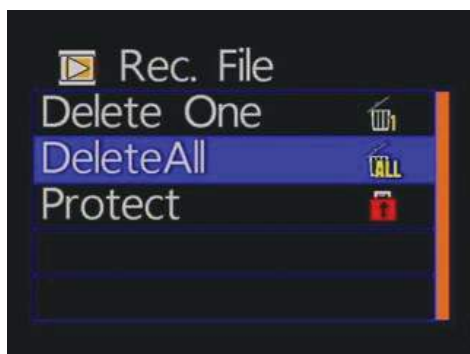
■   Playback settings - Deleting a single file

* You must first disable the protection function in order to delete a file.

■   Playback settings - Delete All

* You must first disable the protection function in order to delete a file.

■   Playback file setting - Protect

Note: When the lock icon appears, this specific video data is protected.

3.   Snapshot playback

Press " Playback" on the remote control in the Snapshot mode. Select the timing of the snapshot pictures.

ACTION   **TOUCHE SUR LA TÉLÉCOMMANDE**

Rotate   🔄 [Enter] key

Next   ▲ ▼ [R/L] key

Zoom   ▲ ▼ [U/D] key

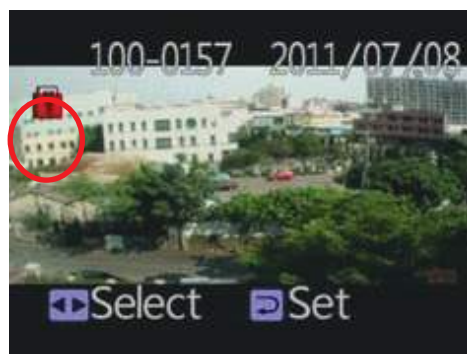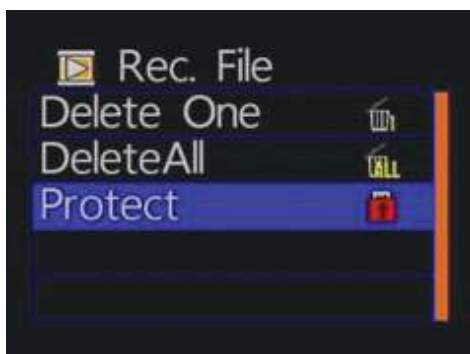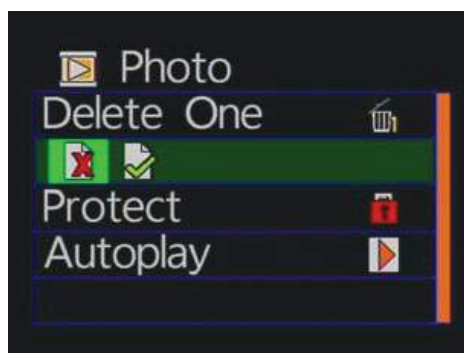■   Photo playback settings - Delete one

* You must first disable the protection function in order to delete a file.

■   Photo playback settings - Delete All

* You must first disable the protection function in order to delete a file.

■   Photo playback settings-protect
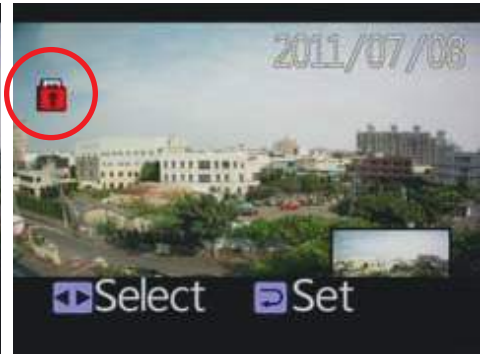
Note: When the lock icon appears, this specific picture data is protected.

■   Photo playback settings - Autoplay

A Photo/Snapshot will be displayed every 5 seconds. Press "Menu" to stop this function.

G.   VUuPRO PLAYER

1.   Remove the SD memory card from the memory card slot located on the device.

2.   Put the SD memory card in the USB memory card reader.

3.   Connect the memory card reader to the USB port on your PC. How to choose the file to play: Run the "VuPro Player" software ⓤ located on the USB key. The below screen will appear. Select the

   "Open the folder" icon 📁 and choose the correct file on the memory card and click on the "Play" icon ▶ play it back.

Note: To use this program you need to install Direct X 9.0 or higher.

VuPro Player Interface Description
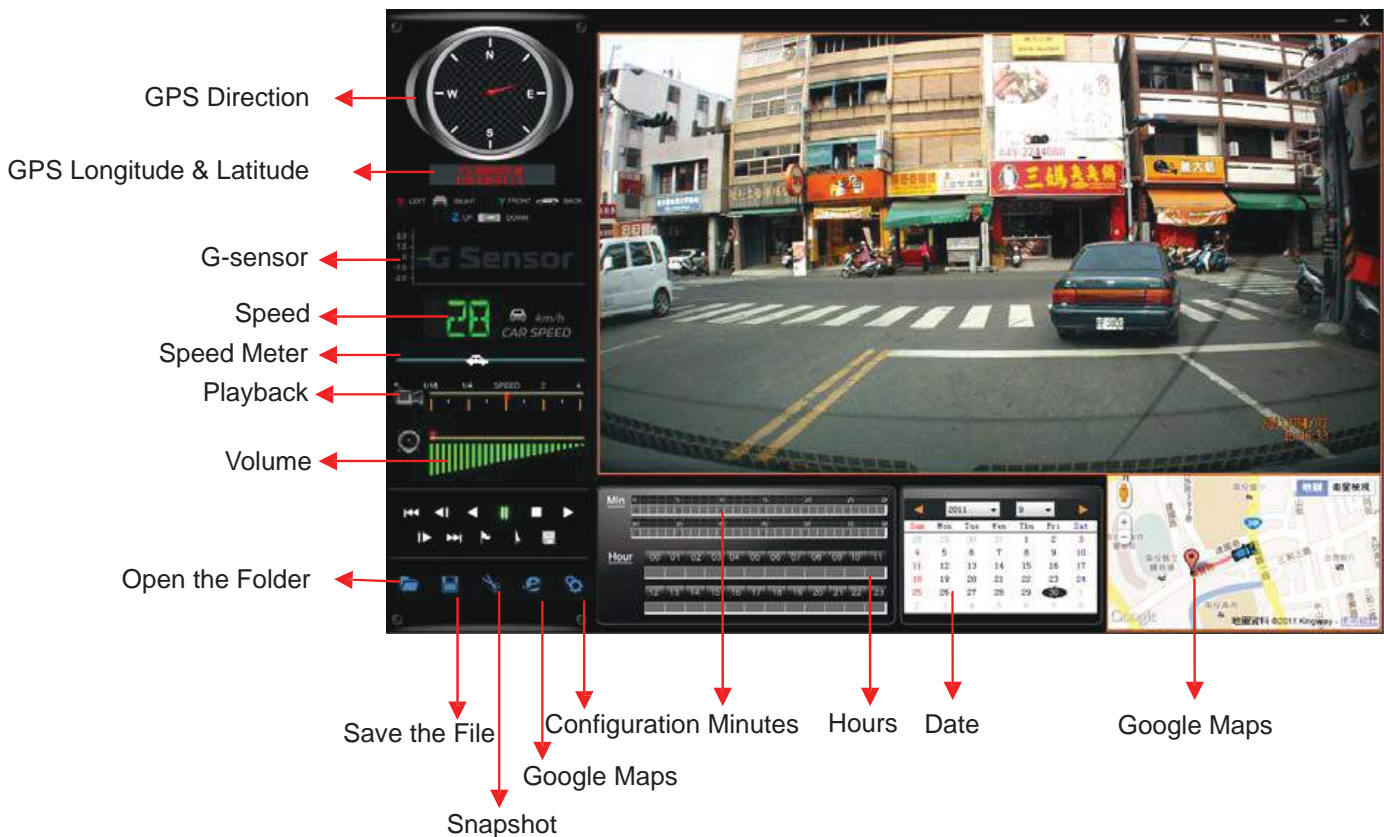
1. Description of the On Screen Display (OSD) Keys:

1	⏮	Play previous file
2	◀❙	Play previous frame
3	◀	Rewind
4	❚❚	Pause
5	◼	Stop
6	▶	Play
7	❙▶	Play next frame
8	⏭	Play next file
9	⚑	Mark starting point of back up file
10	⬗	Mark end point of back up file
11	💾	Backup the marked file
12	📂	Open the folder
13	💾	Backup the current file
14	✂	Snapshot
15	e	Google Maps
16	⚙	Configuration/Settings

■   Shows the GPS latitude and longitude positions

■   G-sensor: Detects strong impact and activates Force Recording to save and protect about 3 minutes of footage before and after the accident. This video will not be deleted or overwritten by other files; the integrity of the accident video is protected.

X: The G-force detected from left/right of the vehicle
Y: The G-force detected from front/back of the vehicle
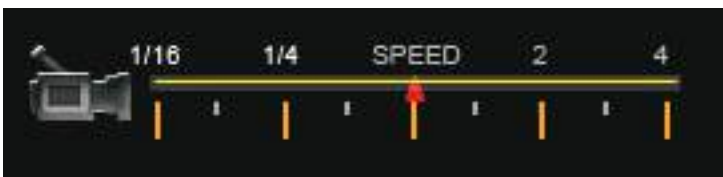Z: The G-force detected from upside/downside of the vehicle

■   Play BAR
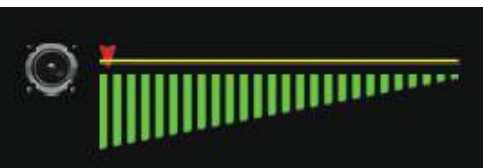Press on the left side of the mouse and drag the car across the BAR to search more quickly through the video.

■   Driving Speed

■   Playback speed
Supports the following speeds: 2x and 4x fast forwarding and 0.25x and 0.0625x slow playback.
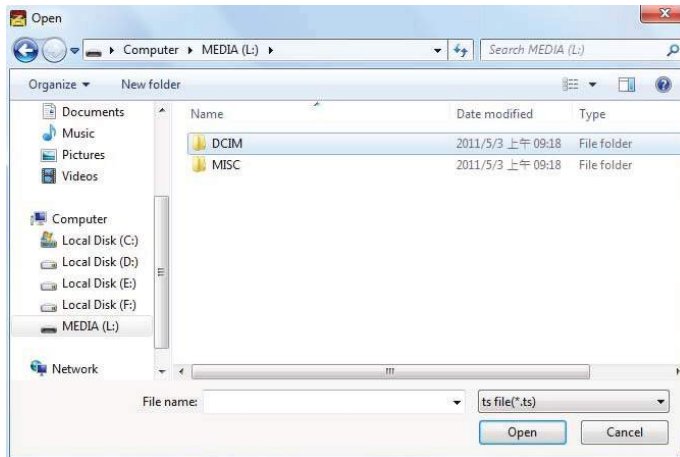

■   Volume control

■ File Playback
Select the icon "Open the folder" 📁 and choose the appropriate file to open. (The file format is *.ts)

■ 💾 File Backup
Select the "File Backup" icon 💾 and choose the file on the memory that you would like to save.
(The file format is *.ts)
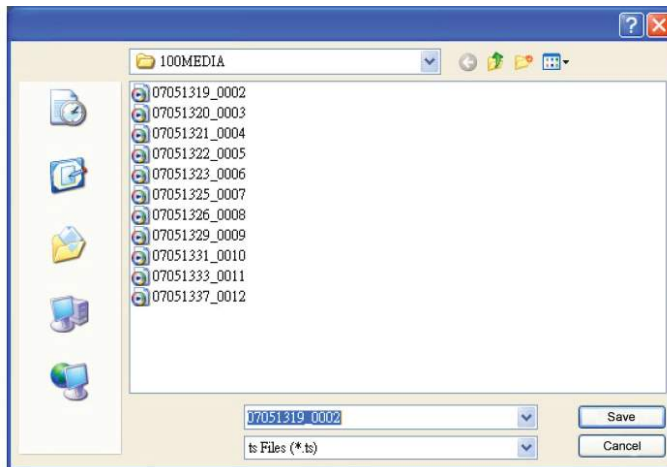
■ ✂ Snapshot Tool
Play the recordings from the SD memory card and then use the Snapshot tool to capture the screen. When you select the snapshot tool icon ✂ the below window will appear. (The image on the display screen will be saved in the Capture storage folder).

■   Google Maps

Click this icon and a Google Maps window will appear tracking the route of the vehicle. (Connection to the Internet is required for this feature to work).
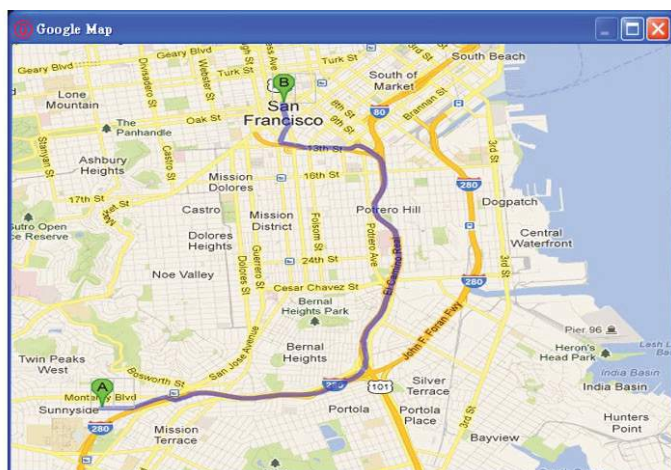
■   Configuration/Settings

This page contains the software version information and the SD memory card data storage settings.
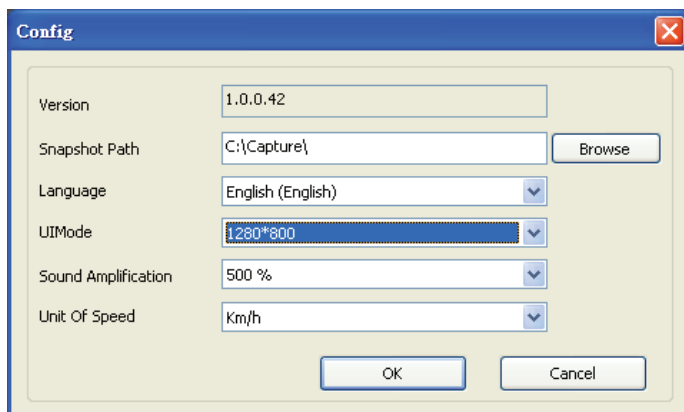
(a)   Snapshot Path: where to save images.

(b)   Language: select the language for the VuPro Player. The settings will be activated once the device is rebooted.

(c)   User Interface (UI) Mode: Set the display mode. To change the configuration option, the SD memory card must be inserted into the device. It provides 3 different resolutions: 960x600, 1280x800 and 1920x1080.

(d)   Sound Amplification: maximum 10 times

(e)   Unit of Speed: km/h, miles/h, knots

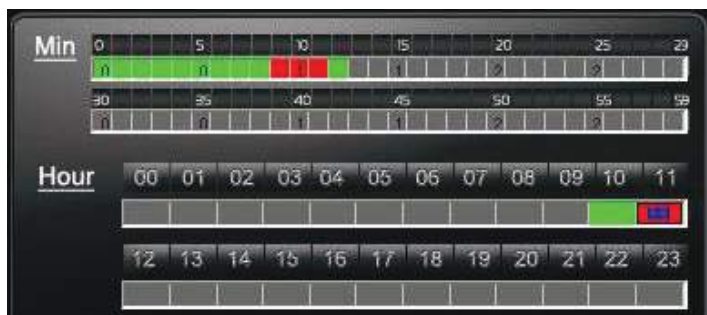■   Playback time selection

Quick switching by minutes

Click the minute's table to change the recording footage immediately.

■   Selecting by Hour/Minutes (24hr cycle)

After selecting the "Date", the Hour/Minutes table will display Red and Green colored sections.
Green: normal recording
Red: force recording

■ Selecting by date

Launch the VuPro Player, click "open" to select the storage file or path. Then select the date in the calendar table. The gray-brown color indicates the recording footage.
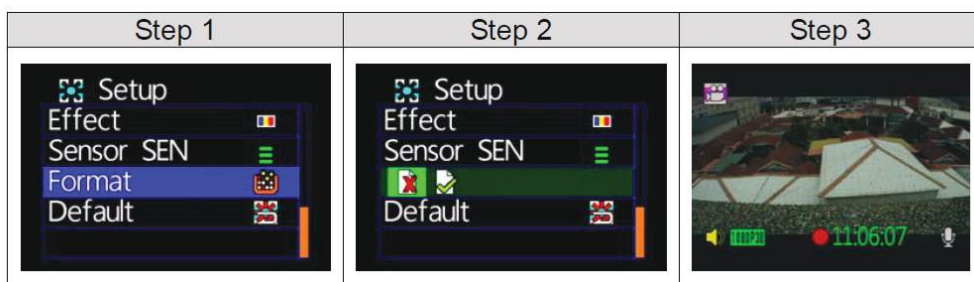
H. FORMATTING THE MEMORY CARD

When should you format the SD memory card?
When you purchase a new SD memory card you must first format it in order for the vehicle video recorder to record properly.

Formatting a new SD memory card:
1.   Insert the SD memory card into the SD card slot on the device and then open the menu. Find the
1.   Format option and select it to begin formatting the SD card.
2.   Your power cable should be connected to your device and you can use the remote control to do this. Steps are shown below.

Step 1	Step 2	Step 3

3.   Once the formatting is complete, leave the menu and go back to the live screen. The SD card is now ready to use.

I. RECORDING TIME ESTIMATION (based on continuous recording with an 8GB memory card)

＊The chart below is for reference only. The length of time recorded can vary according to image size that may be different.

Video Format (NTSC / PAL)		
Resolution / Video Quality	1080P 30fps	720P 30fps
High	110 Min	115 Min
Normal	115 Min	135 Min
Low	135 Min	155 Min

J.   LCD SCREEN INSPECTION: Bright and Dark Spots

Q: What is a Bright/Dark Spot?

A :   • Bright Spot: In a dark background, we found abnormal bright spots and called those spots a "Bright Spot".

• Dark Spot: In a multicolored background (excluding a dark background), we found abnormal dark spots and called those spots a "Dark Spot".

Q: The indication for a bright and dark spot:

• There is no bright spot allowed in Area A. At most, only a single dark spot is allowed.

• The maximum number of bright spots and dark spots allowed in Area B are two of each.

• The total maximum number of bright and dark spots in Area A and B are three.

1/4	1/2	1/4	
B	B	B	1/4
B	A	B	1/2
B	B	B	1/4

The Diagram of Areas A and B

⚠️ **Caution**

(1).   There is a 30 day exchange policy for a defective LCD screen (in regards to bright and dark spots).

(2).   Please keep the receipt and contact your local dealer to exchange the merchandise.

(3).   The maximum valid exchange date is 30 days from purchase.

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